

**Dry Run Schedule for Oral Presentations for the University of Chicago
Review
Bldg. 223, Conf. Rm. L119**

Friday, February 10th

10:00 – 10:35 AM

- Biohydrodynamics and Emergent Behavior of Active Bioparticles: from Self-Assembling Microtubules to Swimming Bacteria - Igor Aronson (10 mins)

10:35 – 11:15 AM

11:15 – 11:55 AM

- Materials Theory Institute: Quantum Mesoscopic Materials and Structures- Valerii Vinokur (10 mins)

Monday, February 13th

8:50 – 9:40 AM

- Overview of the Materials Science Division - George Crabtree (30 mins)

9:40 – 10:20 AM

- Novel Vortex Phases in Cuprates, Meso- and Nano-Superconductors - Wai Kwok (15 mins)

10:20 – 11 AM

- Materials Synthesis: Strategies and Directions - John Mitchell (15 mins)

11 – 11:30 AM

- *Highlight:* Digital Synthesis of Complex Oxides - Anand Bhattacharya (8 mins)

11:30 AM – 12:10 PM

- New Directions in Electron Scattering - Dean Miller (15 mins)

Break

1:10 – 1:45 PM

- Probing Nanoscale Phenomena in Crystalline Materials using Single Crystal Diffuse Scattering - Stephan Rosenkranz (10 mins)

1:45 – 2:20 PM

- Spin Echo Resolved Grazing Incidence Scattering of Neutrons: An opportunity for Addressing Issues in Soft Matter and Biomembranes - Suzanne te Velthuis (10 mins)

2:20 – 3:00 PM

- In-situ Studies of Thin Film Oxide Heterostructures - Amanda Petford-Long (15 mins)

3:00 – 3:40 PM

- Modeling Complex Molecular Systems - Larry Curtiss (15 min)

3:40 – 4:15 PM

- UltraNanoCrystalline Diamond: from the Laboratory to the Startup - John Carlisle (10 mins)

Tuesday, February 14th

9:00 – 9:35 AM

- Genesis and Stardust - Mike Pellin (10 mins)

9:35 – 10:05 AM

- *Highlight:* Magnetic Vortex Dynamics - Kristin Buchanan (8 mins)

10:05 – 10:40 AM

- Plasmonic Routes to Nanophotonics - Ulrich Welp (10 mins)

10:40 – 11:15 AM

- Conductance of a Quantum Wire at Low Electron Density - Konstantin Matveev (10 mins)

11:15 – 11:50 AM

- Superconductivity in Cuprates - Juan Carlos Campuzano (15 mins)

Break

2:30 – 3:10 PM

- Electrocatalysis Designed from Fundamental Principles - Nenad Markovic (15 mins)

3:10 – 3:40 PM

- *Highlight* : Studies of Interfaces Important in Electrocatalysis - Hoydoo You (8 mins)

3:40 – 4:20 PM

- Opportunities in Nanomagnetism - Sam Bader (15 mins)

- Quantum Computing with Electron Spins - Frank Fradin (10 mins) (*out of town-already held practice talk*)